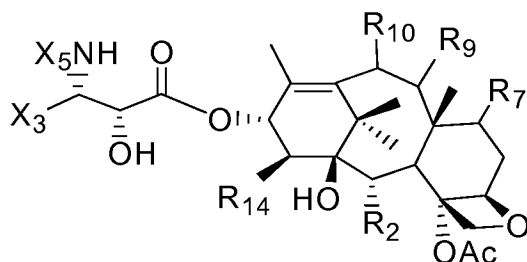


## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

### Listing of claims

Claim 1 (original): A taxane having the formula



R<sub>2</sub> is acyloxy;

R<sub>7</sub> is hydroxy;

R<sub>9</sub> is keto, hydroxy, or acyloxy;

R<sub>10</sub> is R<sub>10a</sub>COO-;

R<sub>10a</sub> is hydrocarbyl, substituted hydrocarbyl, or heterocyclo wherein said hydrocarbyl or substituted hydrocarbyl contains carbon atoms in the alpha and beta positions relative to the carbon atom of which R<sub>10a</sub> is a substituent;

R<sub>14</sub> is hydrido or hydroxy;

X<sub>3</sub> is heterocyclo ~~or substituted or unsubstituted alkyl, alkenyl, or alkynyl, wherein alkyl comprises at least two carbon atoms;~~

X<sub>5</sub> is -COX<sub>10</sub>, -COOX<sub>10</sub>, or -CONHX<sub>10</sub>;

X<sub>10</sub> is hydrocarbyl, substituted hydrocarbyl, or heterocyclo; and

Ac is acetyl.

Claim 2 (original): The taxane of claim 1 wherein R<sub>10a</sub> is substituted or unsubstituted C<sub>2</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl or C<sub>2</sub> - C<sub>8</sub> alkynyl.

Claim 3 (currently amended): The taxane of claim 2 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl, ~~C<sub>2</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl, or C<sub>2</sub> - C<sub>8</sub> alkynyl.~~

Claim 4 (original): The taxane of claim 2 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 5 (original): The taxane of claim 2 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 6 (original): The taxane of claim 2 wherein  $R_{14}$  is hydrido.

Claim 7 (currently amended): The taxane of claim 6 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.~~

Claim 8 (original): The taxane of claim 6 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 9 (original): The taxane of claim 6 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 10 (original): The taxane of claim 2 wherein  $R_2$  is benzoyloxy.

Claim 11 (currently amended): The taxane of claim 10 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.~~

Claim 12 (original): The taxane of claim 10 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 13 (original): The taxane of claim 10 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 14 (original): The taxane of claim 2 wherein R<sub>14</sub> is hydrido and R<sub>9</sub> is keto.

Claim 15 (currently amended): The taxane of claim 14 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl, ~~C<sub>2</sub>-C<sub>8</sub> alkyl, C<sub>2</sub>-C<sub>8</sub> alkenyl, or C<sub>2</sub>-C<sub>8</sub> alkynyl.~~

Claim 16 (original): The taxane of claim 14 wherein X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, C<sub>1</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl, or C<sub>2</sub> - C<sub>8</sub> alkynyl or X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is substituted or unsubstituted C<sub>1</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl, or C<sub>2</sub> - C<sub>8</sub> alkynyl.

Claim 17 (original): The taxane of claim 14 wherein X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is phenyl, or X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-butyl.

Claim 18 (original): The taxane of claim 2 wherein R<sub>2</sub> is benzoyloxy and R<sub>9</sub> is keto.

Claim 19 (currently amended): The taxane of claim 18 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl, ~~C<sub>2</sub>-C<sub>8</sub> alkyl, C<sub>2</sub>-C<sub>8</sub> alkenyl, or C<sub>2</sub>-C<sub>8</sub> alkynyl.~~

Claim 20 (original): The taxane of claim 18 wherein X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, C<sub>1</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl, or C<sub>2</sub> - C<sub>8</sub> alkynyl or X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is substituted or unsubstituted C<sub>1</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl, or C<sub>2</sub> - C<sub>8</sub> alkynyl.

Claim 21 (original): The taxane of claim 18 wherein X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is phenyl, or X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-butyl.

Claim 22 (original): The taxane of claim 2 wherein R<sub>14</sub> is hydrido and R<sub>2</sub> is benzoyloxy.

Claim 23 (currently amended): The taxane of claim 22 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl, ~~C<sub>2</sub>-C<sub>8</sub> alkyl, C<sub>2</sub>-C<sub>8</sub> alkenyl, or C<sub>2</sub>-C<sub>8</sub> alkynyl.~~

Claim 24 (original): The taxane of claim 22 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.

Claim 25 (original): The taxane of claim 22 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 26 (original): The taxane of claim 2 wherein  $R_{14}$  is hydrido,  $R_9$  is keto, and  $R_2$  is benzoyloxy.

Claim 27 (currently amended): The taxane of claim 26 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$\text{C}_2 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.~~

Claim 28 (original): The taxane of claim 26 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.

Claim 29 (original): The taxane of claim 26 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 30 (original): The taxane of claim 1 wherein  $R_{10a}$  is  $\text{C}_2 - \text{C}_8$  alkyl.

Claim 31 (currently amended): The taxane of claim 30 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$\text{C}_2 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.~~

Claim 32 (original): The taxane of claim 30 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.

Claim 33 (original): The taxane of claim 30 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 34 (original): The taxane of claim 30 wherein  $R_{14}$  is hydrido.

Claim 35 (currently amended): The taxane of claim 34 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 36 (original): The taxane of claim 34 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.

Claim 37 (original): The taxane of claim 34 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 38 (original): The taxane of claim 30 wherein  $R_2$  is benzoyloxy.

Claim 39 (currently amended): The taxane of claim 38 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 40 (original): The taxane of claim 38 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.

Claim 41 (original): The taxane of claim 38 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 42 (original): The taxane of claim 30 wherein  $R_{14}$  is hydrido and  $R_9$  is keto.

Claim 43 (currently amended): The taxane of claim 42 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 44 (original): The taxane of claim 42 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 45 (original): The taxane of claim 42 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 46 (original): The taxane of claim 30 wherein  $R_2$  is benzoyloxy and  $R_9$  is keto.

Claim 47 (currently amended): The taxane of claim 46 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.~~

Claim 48 (original): The taxane of claim 46 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 49 (original): The taxane of claim 46 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 50 (original): The taxane of claim 30 wherein  $R_{14}$  is hydrido and  $R_2$  is benzoyloxy.

Claim 51 (currently amended): The taxane of claim 50 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.~~

Claim 52 (original): The taxane of claim 50 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 53 (original): The taxane of claim 50 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 54 (original): The taxane of claim 30 wherein  $R_{14}$  is hydrido,  $R_9$  is keto, and  $R_2$  is benzoyloxy.

Claim 55 (currently amended): The taxane of claim 54 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$\text{C}_2-\text{C}_8$  alkyl,  $\text{C}_2-\text{C}_8$  alkenyl, or  $\text{C}_2-\text{C}_8$  alkynyl.~~

Claim 56 (original): The taxane of claim 54 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.

Claim 57 (original): The taxane of claim 54 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 58 (original): The taxane of claim 1 wherein  $R_{10a}$  is ethyl.

Claim 59 (currently amended): The taxane of claim 58 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$\text{C}_2-\text{C}_8$  alkyl,  $\text{C}_2-\text{C}_8$  alkenyl, or  $\text{C}_2-\text{C}_8$  alkynyl.~~

Claim 60 (original): The taxane of claim 58 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.

Claim 61 (original): The taxane of claim 58 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 62 (original): The taxane of claim 58 wherein  $R_{14}$  is hydrido.

Claim 63 (currently amended): The taxane of claim 62 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 64 (original): The taxane of claim 62 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 65 (original): The taxane of claim 62 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 66 (original): The taxane of claim 58 wherein  $R_2$  is benzoyloxy.

Claim 67 (currently amended): The taxane of claim 66 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 68 (original): The taxane of claim 66 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 69 (original): The taxane of claim 66 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 70 (original): The taxane of claim 58 wherein  $R_{14}$  is hydrido and  $R_9$  is keto.

Claim 71 (currently amended): The taxane of claim 70 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 72 (original): The taxane of claim 70 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.



Claim 73 (original): The taxane of claim 70 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 74 (original): The taxane of claim 58 wherein  $R_2$  is benzoyloxy and  $R_9$  is keto.

Claim 75 (currently amended): The taxane of claim 74 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$\text{C}_2-\text{C}_8$  alkyl,  $\text{C}_2-\text{C}_8$  alkenyl, or  $\text{C}_2-\text{C}_8$  alkynyl.~~

Claim 76 (original): The taxane of claim 74 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1-\text{C}_8$  alkyl,  $\text{C}_2-\text{C}_8$  alkenyl, or  $\text{C}_2-\text{C}_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1-\text{C}_8$  alkyl,  $\text{C}_2-\text{C}_8$  alkenyl, or  $\text{C}_2-\text{C}_8$  alkynyl.

Claim 77 (original): The taxane of claim 74 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 78 (original): The taxane of claim 58 wherein  $R_{14}$  is hydrido and  $R_2$  is benzoyloxy.

Claim 79 (currently amended): The taxane of claim 78 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$\text{C}_2-\text{C}_8$  alkyl,  $\text{C}_2-\text{C}_8$  alkenyl, or  $\text{C}_2-\text{C}_8$  alkynyl.~~

Claim 80 (original): The taxane of claim 78 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1-\text{C}_8$  alkyl,  $\text{C}_2-\text{C}_8$  alkenyl, or  $\text{C}_2-\text{C}_8$  alkynyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1-\text{C}_8$  alkyl,  $\text{C}_2-\text{C}_8$  alkenyl, or  $\text{C}_2-\text{C}_8$  alkynyl.

Claim 81 (original): The taxane of claim 78 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 82 (original): The taxane of claim 58 wherein  $R_{14}$  is hydrido,  $R_9$  is keto, and  $R_2$  is benzoyloxy.

Claim 83 (currently amended): The taxane of claim 82 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 84 (original): The taxane of claim 82 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 85 (original): The taxane of claim 82 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 86 (original): The taxane of claim 82 wherein  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

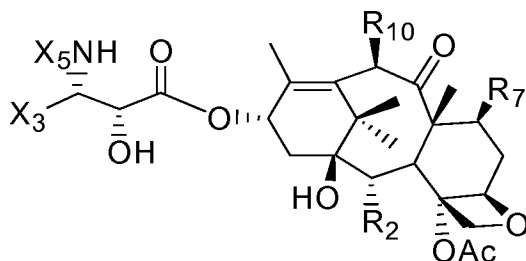
Claim 87 (currently amended): The taxane of claim 86 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 88 (original): The taxane of claim 86 wherein  $X_3$  is 2-furyl.

Claim 89 (original): The taxane of claim 86 wherein  $X_3$  is 2- thienyl.

Claim 90 (cancel)

Claim 91 (currently amended): A taxane having the formula



$R_2$  is benzoyloxy;

$R_7$  is hydroxy;

$R_{10}$  is  $R_{10a}COO^-$ ;

$X_3$  is ~~substituted or unsubstituted~~ heterocyclo;

$X_5$  is  $-COX_{10}$ ,  $-COOX_{10}$ , or  $-CONHX_{10}$ ;

$X_{10}$  is hydrocarbyl, substituted hydrocarbyl, or heterocyclo; and

$R_{10a}$  is hydrocarbyl, substituted hydrocarbyl, or heterocyclo wherein said hydrocarbyl or substituted hydrocarbyl contains carbon atoms in the alpha and beta positions relative to the carbon of which  $R_{10a}$  is a substituent; and

Ac is acetyl.

Claim 92 (original): The taxane of claim 91 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl or 4-pyridyl.

Claim 93 (original): The taxane of claim 92 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 94 (original): The taxane of claim 92 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 95 (original): The taxane of claim 91 wherein  $X_3$  is furyl or thienyl.

Claim 96 (original): The taxane of claim 95 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 97 (original): The taxane of claim 95 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 98 (original): The taxane of claim 91 wherein  $R_{10a}$  is ethyl or propyl.

Claim 99 (original): The taxane of claim 98 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl or 4-pyridyl.

Claim 100 (original): The taxane of claim 99 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.

Claim 101 (original): The taxane of claim 99 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 102 (original): The taxane of claim 98 wherein  $X_3$  is furyl or thienyl.

Claim 103 (original): The taxane of claim 102 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $\text{C}_1 - \text{C}_8$  alkyl,  $\text{C}_2 - \text{C}_8$  alkenyl, or  $\text{C}_2 - \text{C}_8$  alkynyl.

Claim 104 (original): The taxane of claim 91 wherein  $X_3$  is substituted or unsubstituted furyl,  $\text{R}_{10a}$  is ethyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 105 (original): The taxane of claim 91 wherein  $X_3$  is substituted or unsubstituted thienyl,  $\text{R}_{10a}$  is ethyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 106 (original): The taxane of claim 91 wherein  $X_3$  is 2-furyl or 2-thienyl,  $\text{R}_{10a}$  is ethyl,  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 107 (original): The taxane of claim 91 wherein  $X_3$  is 2-furyl,  $\text{R}_{10a}$  is ethyl,  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 108 (original): The taxane of claim 91 wherein  $X_3$  is 2-thienyl,  $\text{R}_{10a}$  is ethyl,  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 109 (original): A pharmaceutical composition comprising the taxane of claim 1 and at least one pharmaceutically acceptable carrier.

Claim 110 (currently amended): The pharmaceutical composition of claim 109 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 111 (original): The pharmaceutical composition of claim 110 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 112 (original): The pharmaceutical composition of claim 110 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 113 (original): The pharmaceutical composition of claim 109 wherein  $R_{10a}$  is ethyl or propyl.

Claim 114 (currently amended): The pharmaceutical composition of claim 113 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  ~~$C_2-C_8$  alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$  alkynyl.~~

Claim 115 (original): The pharmaceutical composition of claim 114 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 116 (original): The pharmaceutical composition of claim 114 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 117 (original): The pharmaceutical composition of claim 110 wherein  $X_3$  is furyl or thienyl,  $R_{10a}$  is ethyl, and  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 118 (original): The pharmaceutical composition of claim 110 wherein  $X_3$  is substituted or unsubstituted furyl,  $R_{10a}$  is ethyl, and  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 119 (original): The pharmaceutical composition of claim 110 wherein  $X_3$  is substituted or unsubstituted thienyl,  $R_{10a}$  is ethyl, and  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 120 (cancel)

Claim 121 (cancel)

Claim 122 (original): The pharmaceutical composition of claim 110 wherein  $X_3$  is 2-furyl or 2-thienyl,  $R_{10a}$  is ethyl,  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 123 (original): The pharmaceutical composition of claim 110 wherein  $X_3$  is 2-furyl,  $R_{10a}$  is ethyl,  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 124 (original): The pharmaceutical composition of claim 110 wherein  $X_3$  is 2-thienyl,  $R_{10a}$  is ethyl,  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl.

Claim 125 (cancel):

Claim 126 (cancel):

Claim 127 (original): A pharmaceutical composition comprising the taxane of claim 91 and at least one pharmaceutically acceptable carrier.

Claim 128 (original): A pharmaceutical composition comprising the taxane of claim 95 and at least one pharmaceutically acceptable carrier.

Claim 129 (original): A composition for oral administration comprising the taxane of claim 1 and at least one pharmaceutically acceptable carrier.

Claim 130 (currently amended): The composition of claim 129 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl,  $C_2-C_8$ -alkyl,  $C_2-C_8$  alkenyl, or  $C_2-C_8$ -alkynyl.

Claim 131 (original): The composition of claim 130 wherein R<sub>10a</sub> is ethyl or propyl.

Claim 132 (original): The composition of claim 131 wherein X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is phenyl, or X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-butyl.

Claim 133 (original): The composition of claim 131 wherein R<sub>14</sub> is hydrogen, R<sub>2</sub> is benzoyloxy, and X<sub>5</sub> is -COX<sub>10</sub> wherein X<sub>10</sub> is phenyl, or X<sub>5</sub> is -COOX<sub>10</sub> wherein X<sub>10</sub> is t-butyl.

Claims 134-136 (cancel)

Claim 137 (original): A method of inhibiting tumor growth in mammals, said method comprising orally administering a therapeutically effective amount of a pharmaceutical composition comprising the taxane of claim 1 and at least one pharmaceutically acceptable carrier.

Claim 138 (currently amended): The method of claim 137 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, or 4-pyridyl, C<sub>2</sub>-C<sub>8</sub>-alkyl, C<sub>2</sub>-C<sub>8</sub>-alkenyl, or C<sub>2</sub>-C<sub>8</sub>-alkynyl.

Claim 139 (original): The method of claim 138 wherein R<sub>10a</sub> is ethyl or propyl.

Claim 140 (original): The method of claim 139 wherein X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is phenyl, or X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-butyl.

Claim 141 (original): The method of claim 140 wherein R<sub>14</sub> is hydrogen and R<sub>2</sub> is benzoyloxy.

Claim 142 (cancel)

Claim 143 (cancel)

Claim 144 (original): The method of claim 141 wherein X<sub>3</sub> is furyl or thienyl; R<sub>10a</sub> is ethyl; and X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is phenyl.

Claim 145 (cancel)

Claim 146 (original): The taxane of claim 1 wherein  $R_{10a}$  is propyl,  $X_3$  is 2-furyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is propyl, trans-propenyl, butenyl, 2-thienyl or 2-furyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is ethyl, isopropyl or isobutyl.

Claim 147 (original): The taxane of claim 1 wherein  $R_{10a}$  is propyl,  $X_3$  is 2-thienyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is propyl, trans-propenyl, isobutenyl, butenyl, phenyl, 2-thienyl, 2-furyl or 3-pyridyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is ethyl, isopropyl or isobutyl.

Claim 148 (original): The taxane of claim 1 wherein  $R_{10a}$  is propyl,  $X_3$  is 3-furyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is trans-propenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is isobutyl.

Claim 149 (original): The taxane of claim 1 wherein  $R_{10a}$  is propyl,  $X_3$  is 3-thienyl, and  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is isobutyl.

Claim 150 (original): The taxane of claim 1 wherein  $R_{10a}$  is cyclopropyl,  $X_3$  is 2-furyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is propyl, trans-propenyl, butenyl, phenyl, 2-thienyl or 2-furyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is ethyl, isopropyl, isobutyl or t-butyl.

Claim 151 (original): The taxane of claim 1 wherein  $R_{10a}$  is cyclopropyl,  $X_3$  is 2-thienyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is propyl, trans-propenyl, butenyl, isobutenyl, phenyl, 2-thienyl, 2-furyl or 3-pyridyl or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is ethyl, isopropyl, isobutyl or t-butyl.

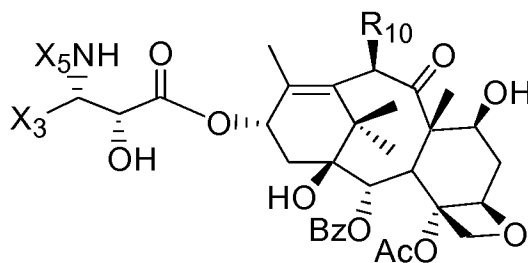
Claim 152 (original): The taxane of claim 1 wherein  $R_{10a}$  is cyclopropyl,  $X_3$  is 3-furyl or 3-thienyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is trans-propenyl or phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is isobutyl or t-butyl.

Claim 153 (original): The taxane of claim 1 wherein  $R_{10a}$  is cyclopropyl,  $X_3$  is 2-pyridyl or 4-pyridyl, and  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is phenyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-butyl.

Claim 154 (original): The taxane of claim 1 wherein  $R_{10a}$  is ethyl,  $X_3$  is 2-furyl, and  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-amyl.



Claim 155 (original): A taxane having the formula



$R_{10}$  is  $R_{10a}COO^-$ ;

$R_{10a}$  is ethyl;

$X_3$  is isopropyl, cyclopropyl, cyclobutyl, cyclopentyl, 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 3-pyridyl or 4-pyridyl;

$X_5$  is  $-COX_{10}$  and  $X_{10}$  is propyl, butenyl, isobutenyl, phenyl, 2-thienyl, 2-furyl, 3-pyridyl or 4-pyridyl or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is ethyl, isopropyl, isobutyl or t-butyl; and

Ac is acetyl.

Claim 156 (original): The taxane of claim 155 wherein  $X_3$  is 2-thienyl, 3-thienyl, 2-furyl or 3-furyl.

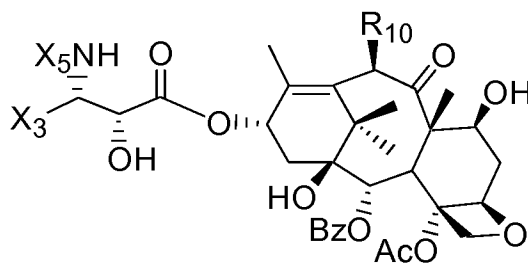
Claim 157 (original): The taxane of claim 155 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is propyl or phenyl or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is isopropyl, isobutyl or t-butyl.

Claim 158 (original): The taxane of claim 155 wherein  $X_3$  is 2-thienyl.

Claim 159 (original): The taxane of claim 155 wherein  $X_3$  is 2-furyl.

Claim 160 (original): The taxane of claim 91 wherein  $R_{10a}$  is ethyl,  $X_3$  is 2-thienyl, 2-furyl or 3-furyl, and  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is trans-propenyl.

Claim 161 (original): A taxane having the formula



$R_{10}$  is  $R_{10a}COO^-$ ;

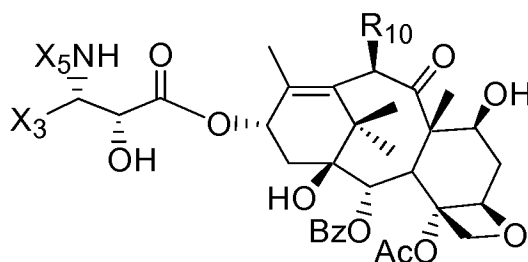
$R_{10a}$  is propyl;

$X_3$  is isopropyl, cyclopropyl, cyclobutyl, 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 3-pyridyl or 4-pyridyl;

$X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl; and

Ac is acetyl.

Claim 162 (original): A taxane having the formula



$R_{10}$  is  $R_{10a}COO^-$ ;

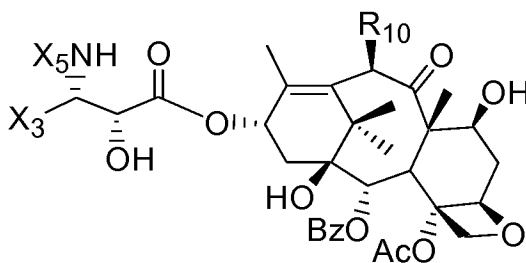
$R_{10a}$  is 2-thienyl or 2-furyl;

$X_3$  is isopropyl, cyclobutyl, isobutenyl, 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 3-pyridyl, 4-pyridyl or p-nitrophenyl;

$X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl; and

Ac is acetyl.

Claim 163 (original): A taxane having the formula:



$R_{10}$  is  $R_{10a}COO-$ ;

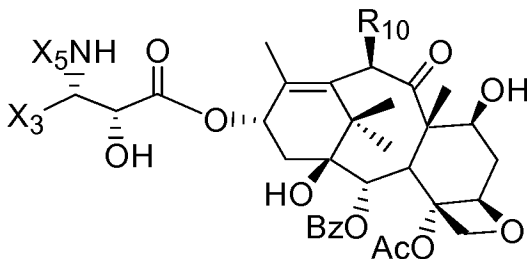
$R_{10a}$  is isobutenyl;

$X_3$  is isobutenyl, 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl or 4-pyridyl;

$X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl; and

Ac is acetyl.

Claim 164 (original): A taxane having the formula



$R_{10}$  is  $R_{10a}COO-$ ;

$R_{10a}$  is isopropyl or trans-propenyl;

$X_3$  is isopropyl, cyclobutyl, isobutenyl, 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 4-pyridyl or p-nitrophenyl;

$X_5$  is  $-COOX_{10}$  and  $X_{10}$  is t-butyl; and

Ac is acetyl.

Claim 165 (new): The taxane of claim 91 wherein  $X_3$  is heterocyclo substituted by one or more of the groups selected from hydrocarbyl, substituted hydrocarbyl, keto, hydroxy, protected hydroxy, acyl, acyloxy, alkoxy, alkenoxy, alkynoxy, aryloxy, halogen, amido, amino, nitro, cyano, thiol, ketals, acetals, esters and ethers.

Claim 166 (new): The taxane of claim 91 wherein  $X_3$  is heteroaryl.

Claim 167 (new): The taxane of claim 166 wherein  $X_3$  is furyl, thienyl, pyridyl, oxazolyl, pyrrolyl, indolyl, or isoquinoliny.

Claim 168 (new): The taxane of claim 91 wherein  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is  $\text{C}_1\text{-C}_8$  alkyl.

Claim 169 (new): The taxane of claim 168 wherein  $X_{10}$  is ethyl or straight or cyclic propyl, butyl, pentyl or hexyl.

Claim 170 (new): The taxane of claim 168 wherein  $X_{10}$  is branched propyl, pentyl or hexyl.

Claim 171 (new): The taxane of claim 1 wherein  $R_9$  is hydroxy.

Claim 172 (new): The taxane of claim 1 wherein  $R_9$  is acyloxy.

Claim 173 (new): The taxane of claim 1 wherein  $R_{14}$  is hydroxy.

Claim 174 (new): The taxane of claim 91 wherein  $R_{10a}$  is  $\text{C}_2\text{-C}_6$  alkyl.

Claim 175 (new): The taxane of claim 91 having the formula:

